

IN THE SPECIFICATION:

Please amend paragraph 38 as follows.

[0038] (Marked-up Copy) The displacement distance of the regulator body 41 at the inlet channel 13 is controlled by the number of turns made to the adjustment nut 52 located on the screw 49 44 via the nut 45. Accordingly, by adjusting the opening of the regulator body 41 with the screw 49 44 and adjustment nut 52 arrangement, the required flow rate is set, particularly, the flow area at the inlet channel 13 is decreased. Specifically, controlling the distance of displacement of the regulator body 41 serves to increase and/or decrease the flow area at the flow path between the inlet channel 13 and the chamber 12. Moreover, a feature for limiting the longitudinal movement of the regulator body 41 is provided by way of first stop means 50 located on the adjustment nut 46 and second stop means 51 located on situated between the adjustment nut 52 and the regulator body 41. Stop means 50 A second adjustment nut 46 is provided at the distal end of screw 49 and is rotated in a direction counter to the rotation of adjustment nut 52 to displace the regulator body 41 in an upward direction relative to the inlet channel 13, i.e., increasing the flow area at the inlet channel 13. A washer 50 is supported by the valve housing 11 and is situated between a space or gap created by the main body 46a and the lower portion 46b of the adjustment nut 46 and serves to abut or otherwise rest on a portion of the housing 11. Second stop Stop means 51 is situated between a distal upper end portion of the regulator body 41 and a washer 52 and may abut or otherwise rest on another portion of the housing 11. Hence, when the adjustment nut 52 is rotated about screw 49, the first stop means 50 and the second stop means 51 combine to limit contacts the housing 11, and thus, limits the distance from which the regulator body 41 adjustably extends towards the chamber 12. The distance of displacement may be determined manually by measuring the distance between the first stop means washer 50 and the second stop means 51. Accordingly, the adjustment of the flow area serves to

determine the rate of flow of the liquid product L as well as the volume of liquid product L drawn into the chamber 12. While the product flow regulator 40 is shown to be manually actuated using the screw 45 49 and adjustment nut 46 52 arrangement, such adjustment may be performed electronically using any electronic actuator known in the art. Such alternative actuators may include a pneumatic actuator, an electromagnetic actuator or the like.